



Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/767,476
				Filing Date	01/28/2004
				First Named Inventor	Stuelpnagel et al.
				Art Unit	To be assigned
				Examiner Name	To be assigned
Sheet	1	of	11	Attorney Docket Number	01-00008

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number/Kind Code*	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ADS	1	4,200,110	4/29/1980	Peterson	
	2	4,499,052	2/12/1985	Fulwyler	
	3	4,672,040	6/9/1987	Josephson	
	4	4,682,895	7/28/1987	Costello	
	5	4,785,814	11/22/1988	Kane	
↓	6	4,822,746	4/18/1989	Walt	
	7	4,824,789	4/25/1989	Yafuso	

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Examiner Initials*	Cite No.*	Foreign Patent Document Country Code*-Number*-Kind Code*	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	8	EP 0 269 764	06/08/1988	Molecular Biosystems, Inc.	
	9	WO 93/11101	11/16/1993	Dynal A.S.	
ADS	10	EP 0 392 546	10/17/1990	Ro Institut Za Molekularnu Genetiku I Geneticko Inzenjerstvo	
	11	EP 0 478 319	04/01/1992	Kabushiki Kaisha Toshiba	
	42	WO 93/02360	02/07/1993	Trans Mod Biotech, Inc.	
ADS	13	WO-93/06121	04/01/1993	Affymax Technologies	
	44	WO-96/03212	02/08/1996	Sydney Brenner	
ADS	15	EP 0 723 146	07/24/1996	SRI International	
	16	WO-97/14028	04/17/1997	Luminex Corp.	
ADS	17	WO-97/14928	04/24/1997	Norman Brint	
ADS	18	WO-97/33737	09/18/1997	Pres. and Fellows of Harvard College	
ADS	19	WO-97/40385	10/30/1997	Michael Seul	

Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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ADS	20	4,999,306	3/12/1991	Yafuso	
	21	5,002,867	3/26/1991	Macevicz	
	22	5,028,545	7/2/1991	Soini	
	23	5,105,305	4/14/1992	Betzig	
	24	5,114,864	5/19/1992	Walt	
↓	25	5,132,242	7/21/1992	Cheung	
	26	5,143,853	9/1/1992	Walt	

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ADS	27	WO-98/08092	02/26/1998	SmithKline Beecham Corporation	
ADS	28	WO-98/29736	07/09/1998	Genometrix Inc.	
ADS	29	WO-98/40726	09/17/1998	Trustees of Tufts College	
ADS	30	WO-98/50782	11/12/1998	Trustees of Tufts College	
ADS	31	WO-98/53300	11/16/1998	Lynx Therapeutics	
ADS	32	WO-98/53093	11/26/1998	Bioarray Solutions LLC and Rutgers, the State University of New Jersey	
	33	WO-99/05320	02/04/1999	Rapigene, Inc.	
ADS	34	WO-99/18434	04/15/1999	Trustees of Tufts College	
ADS	35	WO-99/60170	11/25/1999	Hyseq, Inc.	
ADS	36	WO-99/67414	12/29/1999	Gloxo Wellcome Inc.	
ADS	37	WO-00/04372	01/27/2000	The Board of Regents, the University of Texas System	
ADS	38	WO-00/13004	03/09/2000	Trustees of Tufts College	

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<u>ADS</u>	39	5,143,854	9/1/1992	Pirrung	
	40	5,194,300	3/16/1993	Cheung	
	41	5,244,636	9/14/1993	Walt	
	42	5,244,813	9/14/1993	Walt	
	43	5,250,264	10/5/1993	Walt	
↓	44	5,252,494	10/12/1993	Walt	
↓	45	5,254,477	10/19/1993	Walt	

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ADS	48	5,298,741	3/29/1994	Walt	
	49	5,302,509	4/12/1994	Cheeseman	
	50	5,320,814	6/14/1994	Walt	
	51	5,357,590	10/18/1994	Auracher	
	52	5,380,489	1/10/1995	Sutton	
↓	53	5,435,724	7/25/1995	Goodman	
	54	5,445,970	8/29/1995	Rohr	

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ADS	55	5,481,629	1/2/1996	Tabuchi	
	56	5,494,798	2/27/1996	Gerdт	
	57	5,496,997	3/5/1996	Pope	
	58	5,512,490	4/30/1996	Walt	
	59	5,516,635	5/14/1996	Ekins	
↓	60	5,518,883	5/21/1996	Soini	
↓	61	5,545,531	8/13/1996	Rava	

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ADS	62	5,565,324	10/15/1996	Still	
↓	63	5,573,909	11/12/1996	Singer	
↓	64	5,575,849	11/19/1996	Honda	
↓	65	5,595,915	1/21/1997	Geysen	
↓	66	5,633,972	5/27/1997	Walt	
↓	67	5,639,603	6/17/1997	Dower	
↓	68	5,656,241	8/12/1997	Seifert	

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	70	5,814,524	9/29/1998	Walt	
	71	5,837,196	11/17/1998	Pinkel	
	72	5,840,256	11/24/1998	Demers	
	73	5,854,684	12/29/1998	Stabile	
↓	74	5,863,708	1/26/1999	Zanzucchi	
↓	75	5,863,722	1/26/1999	Brenner	

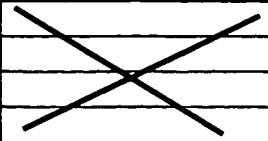
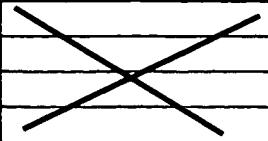
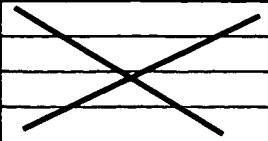
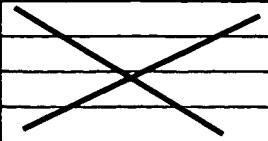
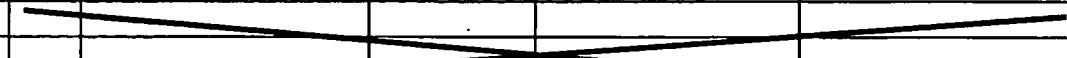
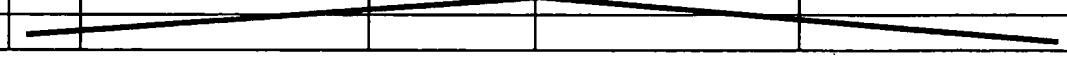
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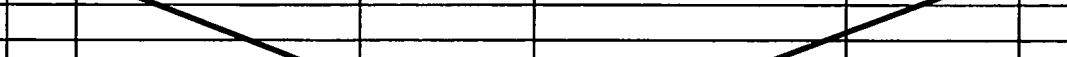
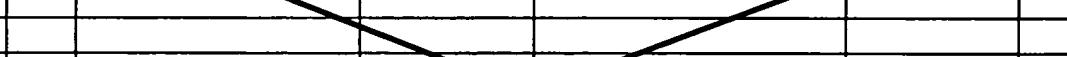
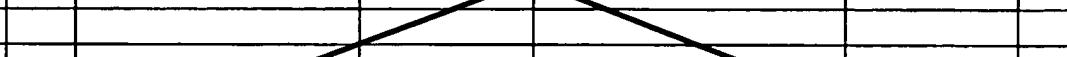
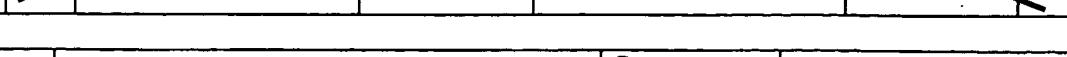
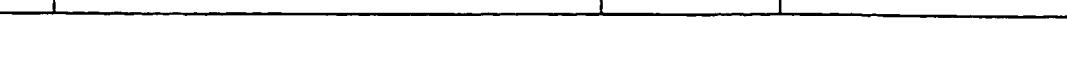
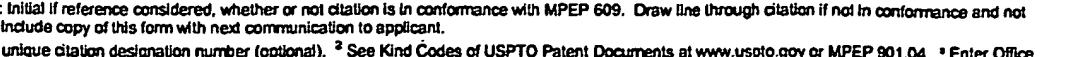
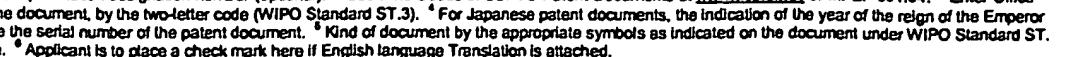
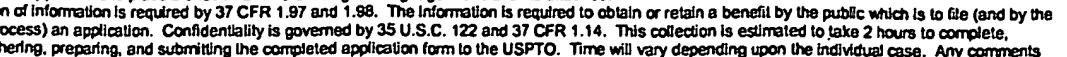
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ADS	76	5,874,219	2/23/1999	Rava	
ADS	77	5,888,723	3/30/1999	Sutton	
ADS	78	5,900,481	5/4/1999	Lough	
ADS	79	6,023,540	2/8/2000	Walt	
					
					
					

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				Application Number	10/767,476
				Filing Date	01/28/2004
				First Named Inventor	Stuelpnagel et al.
				Art Unit	To be assigned
				Examiner Name	To be assigned
Sheet	9	of	11	Attorney Docket Number	01-00008

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
ADS	80	ABEL et al., "Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides," Analytical Chemistry, 68:2905 - 2912 (1996).			
ADS	81	ANONYMOUS, "Fluorescent Microspheres," Tech. Note 19, Bangs Laboratories, (Fishers, IN) (1997).			
ADS	82	ANONYMOUS, "Microsphere Selection Guide," Bangs Laboratories, (Fisher, IN) (1998).			
ADS	83	BANGS, L. B., "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (Carmel, IN) (1996).			
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	87	DRMANAC, R. et al., "Sequencing by Hybridization," Automated DNA Sequencing and Analysis, ed. M. Adams, G. Fields and J. Venter (1994).			
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ADS	89	DRMANAC, R. et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," The First International Conference of Electrophoresis, Supercomputing and the Human Genome, Proceedings of the April 10-13, 1990 Conference at Florida Statute University. Ed. C. Cantor and H. Lim (1990).			
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Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/767,476
				Filing Date	01/28/2004
				First Named Inventor	Stuelpnagel et al.
				Art Unit	To be assigned
				Examiner Name	To be assigned
Sheet	10	of	11	Attorney Docket Number	01-00008

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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	96	ILLUMINA INC., "Emerging," Windhofer's In Vivo, The Business and Medicine Report, 1 - 2 (1998).	
	97	ILLUMINA INC., Slides presented by Illumina at Cambridge HealthTech Institute's Implications of Human Genetic Variation - SNP's, Polymorphisms, Diseases & Treatment, November 10-11, 1998, Waltham, Massachusetts.	
ADS	98	MICHAEL et al., "Fabrication of Micro- and Nanostructures Using Optical Imaging Fibers and their use as Chemical Sensors," Proc. 3rd Int'l. Symp., Microstructures and Microfabricated Systems, ed. P.J. Hesketh, et al., v.97-5, Electrochim. Soc., 152 -157 (1997).	
ADS	99	MICHAEL et al., "Making Sensors out of Disarray: Optical Sensor Microarrays," Proc. SPIE, 3270:34 - 41 (1998).	
ADS	100	MICHAEL et al., "Randomly Ordered Addressable High-Density Optical Sensor Arrays," Analytical Chemistry, 70:1242 -1248 (1998).	
ADS	101	MIGNANI et al., "In-Vivo Biomedical Monitoring by Fiber-Optic Systems," Journal of Lightwave Technology, 13:1396 - 1406 (1995).	

Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/767,476
				Filing Date	01/28/2004
				First Named Inventor	Stuelpnagel et al.
				Art Unit	To be assigned
				Examiner Name	To be assigned
Sheet	11	of	11	Attorney Docket Number	01-00008

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
ADS	102	PANTANO et al., "Ordered Nanowell Arrays," Chem. Mater., 8:2832 - 2835 (1996).			
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ADS	104	PETERSON, J. et al., "Fiber Optic pH Probe for Physiological Use," Analytical Chemistry, 52:864 - 869 (1980).			
ADS	105	PIUNNO et al., "Fiber-Optic DNA Sensor for Fluorometric Nucleic Acid Determination," Analytical Chemistry, 67:2635 -2643 (1995).			
	106	POPE, E., "Fiber-Optic Chemical Microsensors Employing Optically Active Silica Microspheres," SPIE Proc., 2288:246 - 266 (1995).			
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ADS	108	VENTON et al., "Screening Combinatorial Libraries," Chemometrics and Intelligent Laboratory Systems, NL, Elsevier Science Publishers, Amsterdam, 48:131 - 150 (1999).			
ADS	109	WALT, D., "Fiber Optic Imaging Sensors," Acc. Chem. Res., 31:267 -278 (1998).			
ADS	110	WALT, D., "Fiber-Optic Sensors for Continuous Clinical Monitoring," Proc. IEEE, 80:903 - 911 (1992).			
		 			
		 			

Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/767,476
				Filing Date	January 28, 2004
				First Named Inventor	Stuelpnagel, John
				Art Unit	1639
				Examiner Name	Wang, Andrew J.
Sheet	1	of	1	Attorney Docket Number	01-00008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number/Kind Code ²	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ADS	1	4,895,706	01/23/1990	Root et al.	
ADS	2	5,073,029	12/17/1991	Eberly et al.	
ADS	3	5,100,775	03/31/1992	Smyczek et al.	
ADS	4	5,278,048	01/11/1994	Parce et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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16 if possible. "Applicant is to place a check mark here if English language translation is attached.
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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSPPHERES WITH A HYBRIDIZATION CHAMBER
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Application Number : 10/767476
Confirmation Number: 5069
First Named Applicant: John Stuelpnagel
Attorney Docket Number: 01-00008
Art Unit: 1639
Examiner:
Search string: (20030162210).pn

**US Published Applications**

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
ADS	1	20030162210	2003-08-28	Chetverin	✓	✓	✓

Signature

Examiner Name	Date
/Amber Steele/	08/24/2006



Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/767,476
				Filing Date	01/28/2004
				First Named Inventor	John Stuelpnagel
				Art Unit	1639
				Examiner Name	To be assigned
Sheet	1	of	1	Attorney Docket Number	01-00008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number/Kind Code*	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code*Number*Kind Code*	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ADS	1	WO 89/10977	11/16/89	Isis Innovation Limited	
ADS	2	WO 90/00626	01/25/90	Baylor College of Medicine	
ADS	3	WO 90/03382	04/05/90	Isis Innovation Limited	
ADS	4	WO 90/15070	12/13/90	Affymax Technologies N.V.	
ADS	5	WO 90/10092	06/25/92	Affymax Technologies N.V.	
ADS	6	WO 92/10587	06/25/92	Affymax Technologies N.V.	
ADS	7	WO 92/10588	06/25/92	Affymax Technologies N.V.	
ADS	8	WO 93/09668	05/27/93	Affymax Technologies N.V.	
ADS	9	WO 93/11262	06/10/93	Bertin & Cie	
ADS	10	WO 93/22053	11/11/93	Trustees of University of Pennsylvania	
ADS	11	WO 93/22058	11/11/93	Trustees of University of Pennsylvania	
ADS	12	WO 02/00336	01/03/02	Illumina, Inc.	
ADS	13	EP 0 260 965	03/23/88	Pacific Biotech Inc.	
ADS	14	EP 0 378 968	07/25/90	Isis Innovation Limited & Ciba-Geigy AG	
ADS	15	EP 0 417 305	03/20/91	Idemitsu Petrochemical Co. Ltd.	

Examiner Signature	/Amber Steele/	Date Considered	08/24/2006
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¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant's letter to the Office, if available. ⁷ If available, enter the date of the earliest priority claim.

16 if possible. * Applicant is to place a check mark here if English language Translation is attached.
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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IDS - 09/08/2004 ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSPHERES WITH A HYBRIDIZATION CHAMBER
--------------------	--

Application Number : 10/767476



Confirmation Number: 5069

First Named Applicant: John Stuelpnagel

Attorney Docket Number: 01-00008

Art Unit: 1639

Examiner:

Search string: (3281860 or 3690836 or 3710933 or 3802966 or 4016855 or 4121222 or 4204929 or 4373071 or 4458066 or 4500707 or 4728502 or 4731325 or 4780504 or 4812512 or 4815274 or 4853335 or 4877745 or 4878971 or 4963498 or 4992383 or 5021550 or 5047524 or 5141813 or 5153319 or 5188963 or 5200051 or 5204253 or 5256549 or 5281516 or 5281540 or 5287272 or 5288514 or 5300779 or 5304487 or 5310469 or 5314829 or 5320808 or 5322799 or 5346672 or 5358691 or 5374395 or 5382511 or 5384261 or 5436129 or 5451500 or 6355431 or 6396995 or 6429027 or 6544732 or 6551817).pn

US Patent Documents**Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
ADS	1	3281860	1966-10-25	Adams			
	2	3690836	1972-09-12	Buissiere			
	3	3710933	1973-01-16	Fulwyler			
	4	3802966	1974-04-09	Delektō			
	5	4016855	1977-04-12	Mimata			
	6	4121222	1978-10-17	Diebold			
	7	4204929	1980-05-27	Bier			
	8	4373071	1983-02-08	Ikatura			
	9	4458066	1984-07-03	Caruthers			
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	11	4728502	1988-03-01	Hamill			
	12	4731325	1988-03-15	Palva			
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	20	4992383	1991-02-12	Farnsworth			
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	23	5141813	1992-08-25	Nelson			
	24	5153319	1992-10-06	Caruthers			
	25	5188963	1993-02-23	Stapleton			
	26	5200051	1993-04-06	Cozzette			
	27	5204253	1993-04-20	Sanford			
	28	5256549	1993-10-26	Urdea			
	29	5281516	1994-01-25	Stapleton			
	30	5281540	1994-01-25	Merkh			
	31	5287272	1994-02-15	Rutenberg			
	32	5288514	1994-02-22	Ellman			
	33	5300779	1994-04-05	Hillman			
	34	5304487	1994-04-19	Wilding			
	35	5310469	1994-05-10	Cunningham			
	36	5314829	1994-05-24	Coles			
	37	5320808	1994-06-14	Holen			
	38	5322799	1994-06-21	Miller			
	39	5346672	1994-09-13	Stapleton			
	40	5358691	1994-10-25	Clark			
	41	5374395	1994-12-20	Robinson			
	42	5382511	1995-01-17	Stapleton			
	43	5384261	1995-01-24	Winkler			
	44	5436129	1995-07-25	Stapleton			
	45	5451500	1995-09-19	Stapleton			
	46	6355431	2002-03-12	Chee			
	47	6396995	2002-05-28	Stuelpnagel			
	48	6429027	2002-08-06	Chee			
▼	49	6544732	2003-04-08	Chee			
	50	6551817	2003-04-22	Besemer			

Signature

Examiner Name	Date
/Amber Steele/	08/24/2006

IDS - 09/08/2004 ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSpheres WITH A HYBRIDIZATION CHAMBER
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Application Number : 10/767476



Confirmation Number: 5069

First Named Applicant: John Stuelpnagel

Attorney Docket Number: 01-00008

Art Unit: 1639

Examiner:

Search string: (6620584 or 6663832 or 20020132221 or 20020132241 or 20020150909 or 20020177141 or 20030032204 or 20030096239 or 20030108867 or 20030108900).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
ADS	1	6620584	2003-09-16	Chee	✓	✓	✓
ADS	2	6663832	2003-09-16	Lebl	✓	✓	✓

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
ADS	1	20020132221	2002-09-19	Chee	✓	✓	✓
	2	20020132241	2002-09-19	Fan	✓	✓	✓
	3	20020150909	2002-10-17	Stuelpnagel	✓	✓	✓
	4	20020177141	2002-11-28	Chee	✓	✓	✓
	5	20030032204	2003-02-13	Walt	✓	✓	✓
	6	20030096239	2003-05-22	Gunderson	✓	✓	✓
	7	20030108867	2003-06-12	Chee	✓	✓	✓
▼	8	20030108900	2003-06-12	Olivphant	✓	✓	✓

Signature

Examiner Name

Date



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSPHERES WITH A HYBRIDIZATION CHAMBER
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Application Number: 10/767476



Confirmation Number: 5069

First Named Applicant: John Stuelpnagel

Attorney Docket Number: 01-00008

Art Unit: 1639

Search string: (4349510 or 4707454 or 4879097 or 5922617
or 5981180 or 5144136 or 5843767 or 5087820
or 5674698 or 5770157 or 6074614 or 6083763
or 6037186 or 6071748 or 5176881 or
5649576).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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	2	4707454	1987-11-17	Hendrix			
	3	4879097	1989-11-07	Whitehead			
	4	5922617	1999-07-13	Wang			
	5	5981180	1999-11-09	Chandler			
	6	5144136	1992-09-01	Kubisiak			
	7	5843767	1998-12-01	Beattie			
	8	5087820	1992-02-11	Kearns			
	9	5674698	1997-10-07	Zarling			
	10	5770157	1998-06-23	Cargill			
	11	6074614	2000-06-13	Hafeman			
	12	6083763	2000-07-04	Balch			
	13	6037186	2000-03-14	Stimpson			
	14	6071748	2000-06-06	Modin			
	15	5176881	1993-01-05	Sepaniak			



ADS

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1997-07-22

Kirk

Signature

Examiner Name	Date
/Amber Steele/	08/24/2006